FFFFFFFFFFFFFFFF	111 111	111 111	XXX	XXX
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFF	11111	11111	XXX	XXX XXX
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
fff	111	111	XXX	XXX
FFF FFFFFFFF, FFF	111	111	XXX	, , x x x
FFFFFFFFFF	111	111		XX
FFFFFFFFFF	iii	iii	XXX	
FFF	111	111	XXX	^^xxx
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
fff	111	111	XXX	XXX
FFF FFF	111	111	XXX XXX	XXX
FFF	111111111	111111111	ŶŶŶ	XXX XXX
FFF	111111111	111111111	ŶŶŶ	ŶŶŶ
FFF	111111111	111111111	XXX	XXX

_\$25

Symt 10C1 10_C 10_C 10_F 10_S K1CL

KILL KILL LB - C LB - F LB - L LOCA LOCA

LOCK LOCCUA MAKE MAKE MAKE MAKE

MAKE MAKC MAP MAP

MARI MARI MARI MARI MARI

GGGGGGG GG GG GG GG GG GG GG GG GG GG G	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	FFFFFFFF FFFFFFFF FF FF FF FFFFFFF FF F	8B8B8B8B 8B8B8B8B 8B	••••
LL LL LL LL LL LL LL LL LL LL LL LL LL	\$			

GE 1

; 1

```
DENT = 'V04-000'

| MODULE GETFIB (
| LANGUAGE (BLISS32),
| IDENT = 'V04-000'
| ) =
```

BEGIN

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L 11

16-Sep-1984 00:32:18

14-Sep-1984 12:30:28

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FACILITY: F11ACP Structure evel 2

ABSTRACT:

This routine obtains the address of the FIB for this operation.

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

AUTHOR: Andrew C. Goldstein, CREATION DATE: 7-Jan-1977 01:02

MODIFIED BY:

V03-005 LMP0219 L. Mark Pilant, 24-Mar-1984 23:15 Preset FIB\$L_ACL_STATUS to SS\$_NORMAL.

V03-004 ACG0408 Andrew C. Goldstein, 20-Mar-1984 17:49
Make APPLY_RVN and DEFAULT_RVN macros

V03-003 (DS0002 Christian D. Saether 18-Jan-1984

GETF1B V04-000		M 11 16-Sep-1984 00:32:18
; 58	0058 1 !	Modify interface to APPLY_RVN.
61 0061 1 0062 1 62 0062 1 63 0063 1 V03 64 0064 1 65 65 0065 1 66 0066 1 V03 67 1 68 0068 1 69 0069 1 V03 70 0070 1 71 0071 1 72 0072 1	V03-002 CDS0001 Christian D. Saether 30-Dec-1983 Use L_NORM linkage and BIND_COMMON macro.	
	V03-001 ACG0358 Andrew C. Goldstein, 15-Sep-1983 11:44 Remove -1,-1 DID conversion to MFD	
	V02-005 ACG0238 Andrew C. Goldstein, 10-Dec-1981 14:31 Allow dummy file ID of -1,-1,-1	
	VO2-004 STJ34965 Steven T. Jeffreys, 28-Feb-1981 Temporary fix to clear FIB\$V_NOCHARGE bit to prevent users from bypassing diskquota charging.	
	0073 1 ! 0074 1 ! 0075 1 !**	V02-003 ACG0167 Andrew C. Goldstein, 10-Oct-1978 20:00 Previous revision history moved to [F11B.SRC]F11B.REV
77 78 79	0077 1 0078 1 LIBRARY	'SYS\$LIBRARY:LIB.L32'; 'SRC\$:FCPDEF.B32';

GE1 VO4 GETFIB

V04-000

```
GLOBAL ROUTINE GET_FIB (ABD) : L_NORM =
 82
                 1071
                 1072
 84
85
                 1074
                              FUNCTIONAL DESCRIPTION:
 86
87
                 1076
                                      This routine obtains the address of the FIB for this operation.
 88
89
                                      It copies the FIB from the buffer packet into local storage
                 1078
                                      and zero extends it to maximum length.
  90
 91
92
93
94
95
96
97
                 1080
                              CALLING SEQUENCE:
                 1081
                                      GET_FIB (ARG1)
                 1082
                              INPUT PARAMETERS:
                 1084
                                      ARG1: buffer descriptor list
                 1086
                              IMPLICIT INPUTS:
 98
99
                                      CURRENT WINDOW: address of user's window or O IO_PACKET: address of user's I/O packet
                 1087
                 1088
100
                 1089
                              OUTPUT PARAMETERS:
101
                 1090
102
                 1091
                                      NONE
                 1092
104
                              IMPLICIT OUTPUTS:
105
                 1094
                                      NONE
106
                 1095
107
                 1096
                              ROUTINE VALUE:
                 1097
108
                                      address of FIB
                 1098
1099
109
110
                              SIDE EFFECTS:
                 1100
111
                                      file ID may be written into FIB
112
                 1101
                                      channel window pointer write-back inhibited
                 1102
                                      result string buffers zeroed
114
                 1104
1105
1106
1107
115
116
                           BEGIN
118
119
                 1108
                           MAP
                 1109
120123456789012334567
12123456789012334567
                                      ABD
                                                           : REF BBLOCKVECTOR [,ABD$C_LENGTH];
                                                                                 ! buffer descriptors
                 1111
                 1112
                           LOCAL
                                                           : REF BBLOCK.
                                                                                ! FCB of file
                 1114
                                      FIBL:
                                                                                ! length of user FIB
                 1115
                 1116
1117
                           BIND_COMMON;
                 1118
                              Get the length of the user-supplied FIB. If there is a window, and there is no user FIB, use the file ID from the window's FCB. Also use the FCB's file ID if the file number
                 1119
                 1120
1121
1122
1123
1124
1125
1126
                              in the user FIB is zero.
                           FIBL = .ABD[ABD$C_FIB, ABD$W_COUNT];
```

```
16-Sep-1984 00:32:18
14-Sep-1984 12:30:28
V04-000
                               2 CH$COPY (.FIBL, ABD LAE
                       1127
1128
1129
1130
1133
1133
1133
1138
1139
    .ABD[ABD$C_FIB, ABD$w_TEXT] + ABD[ABD$C_FIB, ABD$w_TEXT] + 1,
                                  FIBSC_LENGTH,
LOCAL_FIB);
CURRENT_FIB = LOCAL_FIB;
                                  LOCAL_FIB[FIB$L_ACL_STATUS] = SS$_NORMAL;
                                                                                                                     ! Preset to success
                                      If a non-zero directory ID is present, signal its presence in the
                                      cleanup flags.
                       1140
1141
1142
1143
1144
1145
                                   IF .LOCAL_FIB[FIB$W_DID_NUM] NEQ OOR .LOCAL_FIB[FIB$W_DID_RVN] NEQ O
                                   THEN
                                         BEGIN
                                         CLEANUP_FLAGS[CLF_DIRECTORY] = 1;
APPLY_RVN (LOCAL_FIB[FIB$w_DID_RVN], .CURRENT_RVN);
                       1146
1147
1148
1149
1150
1151
1152
1153
1156
1157
                                   IF .CURRENT_WINDOW NEQ O
                                   THEN
                                         BEGIN
                                         FCB = .CURRENT_WINDOW[WCB$L_FCB];
IF .LOCAL_FIB[FIB$W_FID_NUM] EQL O
AND .LOCAL_FIB[FIB$W_FID_RVN] EQL O
THEN CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);
                                     Default the RVN in the file ID to the RVN of the directory file, if given;
                       1158
                                      else default to the current RVN.
                       1159
                       1160
                                  IF .LOCAL_FIB[FIB$B_FID_RVN] EQL 0
THEN LOCAL_FIB[FIB$B_FID_RVN] = .LOCAL_FIB[FIB$B_DID_RVN];
APPLY_RVN (LOCAL_FIB[FIB$W_FID_RVN), .CURRENT_RVN);
                       1161
                       1162
1163
                       1164
                       1165
                                      If the file ID in the FIB does not match that in the FCB, this operation is not on the open file; clear the FCB and window addresses (except in
                       1166
                       1167
                                      the case of a DEACCESS, ir which we force the file ID to that of the open
                       1168
                                      file and signal an error).
    180
                       1169
                       1170
1171
1172
1173
1174
1175
1176
    181
182
                                  IF .CURRENT_WINDOW NEQ 0
    183
                                   THEN
    184
                                         IF .LOCAL_FIB[FIB$W_FID_NUM] NEQ .FCB[FCB$W_FID_NUM]
    185
    186
                                         OR .LOCAL_FIBEFIBSW_FID_RVN] NEQ .FCBEFCBSW_FID_RVN]
    187
                                         THEN
    188
                                               BEGIN
    189
                       1178
                                               IF .10_PACKET[IRP$V_FCODE] EQL 10$_DEACCESS
    190
                       1179
                                               THEN
    191
                       1180
                       1181
                                                     CHSMOVE (FIBSS_FID, FCB[FCBSW_FID], LOCAL_FIB[FIBSW_FID]);
                       1182
    193
                                                     ERR_STATUS (SS$_BADPARAM);
```

GETFIB

B 12

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[f11x.SRC]GETFIB.B32:1

```
C 12
                                                                                               16-Sep-1984 00:32:18
14-Sep-1984 12:30:28
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[f11X.SRC]GETFIB.B32;1
GETFIB
V04-000
                       1184
1185
1186
1187
                                               ELSE
                                                     BEGIN
CURRINT_WINDOW = 0;
PRIMARY_FCB = 0;
   196
    198
                       1188
    199
                                                     END:
    END:
                       1190
                                         END
                       1191
                       1192
1193
1194
1195
1196
1197
1198
1199
1201
1203
1206
1207
1208
1209
                                      If there is no file open, there must be a minimum FIB.
                                   ELSE
                                         BEGIN
                                         IF .FIBL LSS FIBSC_ACCDATA
AND .IO_PACKET[IRPSV_FCODE] NEG IOS_ACPCONTROL
                                         THEN ERR_EXIT (SS$_INSFARG);
                                   ! Clear FIB$V_NOCHARGE bit to prevent users from bypassing diskquota charging.
                                   LOCAL_FIB [FIB$V_NOCHARGE] = 0;
                                   RETURN LOCAL_FIB;
                                   END:
                                                                                               ! end of routine GET_FIB
                                                                                                              .TITLE
                                                                                                                          GETFIB
                                                                                                                          \V04-000\
                                                                                                              .PSECT $CODE$,NOWRT,2
                                                                                                                          GET_FIB, Save R2,R3,R4,R5,R6,R7,R8 516(BASE), R6
                                                                                                                                                                                               1070
                                                                                  11FC 00000
                                                                                                               .ENTRY
                                                                    0204
                                                                                     9E 00002
                                                          56
50
58
51
50
                                                                                                              MOVAB
                                                                                                                                                                                               1114
                                                                                                                         ABD, RO

10(RO), FIBL

8(RO), R1

(R1), RO

FIBL, 1(R1)[RO], #0, #64, (R6)
                                                                                     DO 00007
                                                                                                                                                                                               1125
                                                                                                              MOVL
                                                                                    3C 0000B
9E 0000F
3C 00013
2C 00016
                                                                               A0
A0
61
58
                                                                       0A
08
                                                                                                              MOVZWL
                                                                                                              MOVAB
                                                                                                                                                                                              1128
                                                                                                              MOVZWL
MOVC5
                                                                                                                                                                                              1127
      0040
                                     00
                                                  01 A140
                                                                                         0001F
                                                                               66
                                                                               56
01
                                                                                         00020
                                                                                                                          R6, 16(BASE)
#1, 52(R6)
10(R6)
                                                                                                                                                                                               1132
1134
                                                  10
34
                                                                                     DO
                                                          AA
                                                                                                              MOVL
                                                                                     DÓ
                                                                                                              MOVL
                                                          A6
                                                                                    B5 00028
12 0002B
B5 0002D
13 00030
                                                                               A6
05
                                                                                                                                                                                               1140
                                                                                                              TSTW
                                                                       0A
                                                                                                              BNEQ
                                                                                                                          1$
                                                                               A6
10
                                                                                                                          14(R6)
                                                                                                                                                                                               1141
                                                                                                              TSTW
                                                                       30
                                                                                                              BEQL
                                                                                                                          3$
                                                                                    88 00032
95 00036
12 00039
                                                                                                                                                                                              1144
                                                                                         00032 18:
                                                                                                                          #64, (BASE)
14(R6)
                                                                               8F
                                                                                                              BISB2
                                                          6A
                                                                               A6
05
                                                                                                              TSTB
                                                                       0Ě
                                                                                                              BNEQ
                                                                                                                          -96(BASE), 14(R6)
14(R6), #1
                                                                               AA
                                                                                     90
                                                                                         0003B
                                                                                                              MOVB
                                                   0E
                                                          A6
01
                                                                               A6
08
AA
03
                                                                        0Ē
                                                                                         00040 25:
                                                                                                              CMPB
                                                                                     12
05
12
                                                                                         00044
                                                                                                              BNEQ
                                                                                                                          3$
```

00046

00049

TSTL

BNEQ

-96(BASE)

3\$

A0

1181

1182

1178 1187

1174

1198

1199

1205 1207 1209

				D 12 16-Sep 14-Sep	-1984 00:32 -1984 12:30	:18 VAX-11 Bliss-32 V4.0-742 :28 DISK\$VMSMASTER:[F11X.SRC]GETF18	Page 6 1.832;1 (2)
50	0E 0C	A6 AA 14	DO (0004B 0004E 3\$:	CLRB MOVL BEQL	14(R6) 12(BASE), R0 4\$	1148
57	18 04	A0 A6 0B	DO (00054 00058 0005B	MOVL TSTW	24(RO), FCB 4(R6) 4\$	1151 1152
4.7	08	A6 06	12 ()005D)0060	BNEQ TSTW BNEQ	8(R6) 4\$	1153
A7 50	08	06 A6 60	9E (00062 00068 4 \$:	MOVC3 MOVAB TSTB	#6, 36(FCB), 4(R6) 8(R6), RO (RO)	1154
60	OE	04 A6 60	90 (95 (0006E 00070 00074 5\$:	BNEQ MOVB TSTB	5 \$ 14(R6), (R0) (R0)	1162
60 01	AO	04 AA 60	90 (91 (00076 00078 0007C 6\$:	BNEQ MOVB CMPB	6\$ -96(BASE), (RO) (RO), #1	
	AO	07 AA 02	D5 (0007F 00081 00084	BNEQ TSTL BNEQ	7\$ -96(BASE) 7\$	
	00	60 AA 2E	D5 (00086 00088 7\$: 0008B	CLRB TSTL BEQL	(RO) 12(BASE) 10\$	1171
A7	04	A6 06	B1 (0008D 00092	CMPW BNEQ	4(R6), 36(FCB) 8\$	1174
A7 50 06	90	60 37 AA	13 (D0 (00094 00098 0009A 8\$:	CMPW BEQL Movl	(RO), 40(FCB) 11\$ -112(BASE), RO	1175
06		00 10	ED (0009E	CMPZV Bneq	NO, N6, 32(RO), N52 9\$	

#6, 36(FCB), 4(R6) -128(BASE), 11\$ #20, -128(BASE) 11\$

-112(BASE), RO NO, N6, 32(RO), N56 11\$ N276

8(BASE)

FIBL, #10

#128, 23(R6) R6, R0

115

115

CMPZV BNEQ

MOVC3

BLBC

MOVW

CLRQ

BRB

BRB

CMPL

BGEQ

MOVL

CMPZV BEQL

CHMU

BICB2

MOVL

RET

RET

; Routine Size: 218 bytes, Routine Base: \$CODE\$ + 0000

1210 1211 1212 1 END 0 ELUDOM

34

38

04

20

04

20

A0

A6

A0

A6

24

24

28

24

80

17

A7 21 AA

0A

50

06

A6 50

80

80

90

0114

80

ĬŎ

06 AA 14

18 AA 16

00

8F 56

ED 0009E 12 000A4 28 000A6 E9 000AC B0 000B0

000B4 000B6 9\$:

000B9

18 000BE DO 000CO

ED 000C4 13 000CA

BF 000CC

04 000D0

DO 000D6

000D9

04

D1 000BB 10\$:

8A 000D1 11\$:

11 7C 11

E 12 16-Sep-1984 00:32:18 14-Sep-1984 12:30:28

VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[f11X.SRC]GETFIB.B32;1

PSECT SUMMARY

Name Bytes

Attributes

\$CODE\$

218 NOVEC, NOW: ', RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 42 0 1000 00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:GETFIB/OBJ=OBJ\$:GETFIB MSRC\$:GETFIB/UPDATE=(ENH\$:GETFIB)

Size: 218 code + 0 data bytes Q0:18.3

Run Time: 00:18.3; Elapsed Time: 00:37.0; Lines/CPU Min: 3984; Lexemes/CPU-Min: 49673; Memory Used: 237 pages; Compilation Complete

GETF

VO4-

0170 AH-BT13A-SE

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